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AMENDMENT AND RESPONSE

REMARKS

Claims 1-5, 7, 9 and 10 are pending. Claims 13-33 were withdrawn by a provisional

election and have been cancelled. Claims 6, 8, 11 and 12 have also been cancelled. Claim 1

has been amended, incorporating the subject matter disclosed in, e.g., Examples 3 and 4 of

the specification. No new matter is added. Favorable consideration of the currently pending

claims is respectfully requested in light of the foregoing amendments and following remarks.

Restriction Requirement

Applicant confirms the provisional election of Group I, Claims 1-12, drawn to "a

composition with a porous substrate impregnated with a permanganate." Claims 13-33 have

been cancelled.

Rejections Under 35 U.S.C. § 102

Claims 1, 2 7 and 9 are rejected under 35 U.S.C. § 102(b) as anticipated by U.S.

Patent No. 3,957,059 to Rainer et al. ("Rainer"). Applicant respectfully traverses the

rejection in view of the amendment presented above and the following remarks.

Rainer discloses activated alumina impregnated with 5-30% sodium permanganate

(Rainer, col. 1, lines 5-18) formed by impregnating alumina with sodium permanganate and a

basic sodium compound (e.g., sodium hydroxide) (col. 3, lines 7-18). All of filters disclosed

Rainer's examples were formed by solution impregnating the permanganate in sodium

hydroxide.

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Applicant has produced high capacity filtration media containing a permanganate

such as sodium permanganate by using only an aqueous permanganate solution without the

use of compounds such as sodium hydroxide or sodium bicarbonate (see, e.g., Examples 3

and 4 of the specification). The higher permanganate concentrations in this media provides

substantial improvements in filtration capacity that enhances the life of the media.

Claim 1 of the present application, as amended, relates to a filtration media

composition "consisting essentially of a porous substrate impregnated with a permanganate .

. . having a solubility in water greater than that of potassium permanganate" and having a

concentration in the composition of "at least approximately 8% permanganate salt by

weight" (emphasis added). The amended "consisting essentially of" language of Claim 1

excludes ingredients that materially affect the basic and novel characteristics of the

composition. See Atlas Powder Co. v. E.I. du Pont de Nemours & Co., 224 U.S.P.Q. 409

(Fed. Cir. 1984). Thus, Claim 1, as amended, excludes from the filtration media additional

compounds such as the sodium hydroxide disclosed in Rainer. Accordingly, applicant

submits that Rainer, which utilizes a sodium hydroxide process to form its filter, does not

anticipate Claim 1.

In view of the above, applicant respectfully requests that the rejection of Claim 1

under 35 U.S.C. § 102(b) be withdrawn.

Claims 2, 7 and 9 are dependent on amended Claim 1 and incorporate all of its

limitations. As Claim 1 is believed allowable over Rainer, these claims are also believed to

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be allowable, and applicant respectfully requests that the rejection of these claims under 35

U.S.C. § 102(b) be withdrawn.

Claims 1, 2 and 6-12 are rejected under 35 U.S.C. § 102(b) as anticipated by U.S.

Patent No. 6,004,522 to England et al. ("England '522"). Claims 6, 8, 11 and 12 have been

cancelled in this Amendment. Applicant respectfully traverses the rejection of the remaining

claims in view of the amendment presented above and the following remarks.

England '522 discloses filtration media formed by impregnating alumina with

potassium permanganate and at least 10% sodium bicarbonate (10-20% sodium bicarbonate

in Example 9; 15-20% sodium bicarbonate in Examples 1 and 2). Although the specification

indicates that sodium bicarbonate may be "optionally" added (col. 9, lines 21-23), none of

the examples in England '522 disclose non-potassium permanganate impregnates, and none

of the examples disclose filtration media formed without sodium bicarbonate. This is due to

the low solubility of aqueous solutions of potassium permanganate.

Accordingly, applicant submits that England '522 fails to anticipate Claim 1 of the

present application, as amended, and respectfully requests that the rejection of Claim 1 under

35 U.S.C. § 102(b) be withdrawn.

Claims 2, 7, 9 and 10 are dependent on amended Claim 1 and incorporate all of its

limitations. As Claim 1 is believed allowable over England '522, these claims are also

believed to be allowable, and applicant respectfully requests that the rejection of these claims

under 35 U.S.C. § 102(b) be withdrawn.

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Rejections Under 35 U.S.C. § 103

Claims 3-5 are rejected under 35 U.S.C. § 103 as obvious in view of England '522 in

combination with U.S. Patent No. 5,942,323 to England ("England '323"). Applicant

respectfully traverses the rejection in view of the amendment presented above and the

following remarks.

England '323 does not cure the deficiencies of Rainer and England '522 discussed

above. England '323 discloses filtration media formed by impregnating a substrate with

potassium permanganate and sodium bicarbonate (see Examples 1-3). As with the England

'522, this reference does not provide any examples of filtration media formed in the absence

of sodium bicarbonate.

Moreover, Claims 3-5 are dependent on amended Claim 1 and incorporate all of its

limitations. As Claim 1 is believed to be allowable, these claims are also allowable, and

applicant respectfully requests that the rejection of these claims be withdrawn.

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CONCLUSION

Applicant respectfully requests reconsideration of the present application in view of

the foregoing. Applicant submits that all claims are in condition for allowance. Such action

is courteously solicited. The Examiner is respectfully invited to contact the undersigned if

there are matters that can be addressed by telephone at 404-815-6500.

Respectfully submitted,

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